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1 Special issue: AI in engineering

D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: 📄 pdf(8.79 MB)   Additional Information: full citation, abstract

   The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

2 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

   Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Publisher: MIT Press

Full text available: 📄 pdf(6.15 MB) 📑 Additional Information: full citation
Publisher Site

4 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

Full text available: 📄 pdf(13.13 MB)   Additional Information: full citation, abstract

   In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter

devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

5 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!, Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)
July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: pdf(6.19 MB)   Additional Information: full citation, index terms

6 Special section: Reasoning about structure, behavior and function
B. Chandrasekaran, Rob Milne
July 1985 **ACM SIGART Bulletin**, Issue 93
Publisher: ACM Press
Full text available: pdf(5.13 MB)   Additional Information: full citation, abstract, references

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

7 The early history of COBOL
Jean E. Sammet
January 1978 **ACM SIGPLAN Notices , The first ACM SIGPLAN conference on History of programming languages HOPL-1**, Volume 13 Issue 8
Publisher: ACM Press
Full text available: pdf(3.10 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper discusses the early history of COBOL, starting with the May 1959 meeting in the Pentagon which established the Short Range Committee which defined the initial version of COBOL, and continuing through the creation of COBOL 61. The paper gives a detailed description of the committee activities leading to the publication of the first official version, namely COBOL 60. The major inputs to COBOL are discussed, and there is also a description of how and why some of the technical decisi ...

8 Floating constraints in lexical choice
Michael Elhadad, Jacques Robin, Kathleen McKeown
June 1997 **Computational Linguistics**, Volume 23 Issue 2
Publisher: MIT Press
Full text available: pdf(3.13 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

Lexical choice is a computationally complex task, requiring a generation system to consider a potentially large number of mappings between concepts and words. Constraints that aid in determining which word is best come from a wide variety of sources, including syntax, semantics, pragmatics, the lexicon, and the underlying domain. Furthermore, in some situations, different constraints come into play early on, while in others, they apply much later. This makes it difficult to determine a systemati ...

9 Technical reports
SIGACT News Staff
January 1981 **ACM SIGACT News**, Volume 13 Issue 1

Publisher: ACM Press
Full text available: pdf(1.78 MB)   Additional Information: full citation

10 Program Transformation Systems
H. Partsch, R. Steinbrüggen
September 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 3
Publisher: ACM Press
Full text available: pdf(3.00 MB)   Additional Information: full citation, references, citings, index terms

11 Usability engineering turns 10
Keith A. Butler
January 1996 **interactions**, Volume 3 Issue 1
Publisher: ACM Press

Full text available: pdf(2.16 MB)   Additional Information: full citation, references, citings, index terms, review

12 Systems, interactions, and macrotheory
Philip Barnard, Jon May, David Duke, David Duce
June 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 2
Publisher: ACM Press

Full text available: pdf(1.60 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

A significant proportion of early HCI research was guided by one very clear vision: that the existing theory base in psychology and cognitive science could be developed to yield engineering tools for use in the interdisciplinary context of HCI design. While interface technologies and heuristic methods for behavioral evaluation have rapidly advanced in both capability and breadth of application, progress toward deeper theory has been modest, and some now believe it to be unnecessary. A case ...

Keywords: cognitive models, computing system models, models of interaction

13 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available: pdf(613.63 KB)
html(2.78 KB)   Additional Information: full citation, references, citings, index terms

14 Inheritance and complementation: a case study of easy adjectives and related nouns
Dan Flickinger, John Nerbonne
September 1992 **Computational Linguistics**, Volume 18 Issue 3
Publisher: MIT Press
Full text available: pdf(2.70 MB)
Publisher Site   Additional Information: full citation, abstract, references, citings

Mechanisms for representing lexically the bulk of syntactic and semantic information for a language have been under active development, as is evident in the recent studies contained in this volume. Our study serves to highlight some of themost useful tools available for structured lexical representation, in particular (multiple) inheritance, default specification, and lexical rules. It then illustrates the value of these mechanisms in illuminating one corner of the lexicon involving an unusual k ...

15 The equalizing impact of a group support system on status differentials

Bernard C. Y. Tan, Kwok-kee Wei, Richard T. Watson

January 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(138.22 KB)   Additional Information: full citation, abstract, references, index terms

This study investigates the impact of the electronic communication capability of a group support system (GSS) on status differentials in small groups. A laboratory experiment was used to answer the research questions. Three support levels were studied: manual, face-to-face GSS, and dispersed GSS. Two task types were examined: intellective and preference. Five dependent variables reflecting different aspects of status differentials were measured: status influence, sustained influence, residu ...

Keywords: electronic communication, group support systems, status differentials, task type

16 Advances in synthesis: Resynthesis and peephole transformations for the optimization of large-scale asynchronous systems

Tiberiu Chelcea, Steven M. Nowick

June 2002 **Proceedings of the 39th conference on Design automation**

Publisher: ACM Press

Full text available: pdf(112.73 KB)   Additional Information: full citation, abstract, references, citings

Several approaches have been proposed for the syntax-directed compilation of asynchronous circuits from high-level specification languages, such as Balsa and Tangram. Both compilers have been successfully used in large real-world applications; however, in practice, these methods suffer from significant performance overheads due to their reliance on straightforward syntax-directed translation.This paper introduces a powerful new set of transformations, and an extended channel-based language to su ...

17 Structured Programming with go to Statements

Donald E. Knuth

December 1974 **ACM Computing Surveys (CSUR)**, Volume 6 Issue 4

Publisher: ACM Press

Full text available: pdf(3.02 MB)   Additional Information: full citation, references, citings, index terms

18 Designing large real-time systems with Ada

Kjell W. Nielsen, Ken Shumate

August 1987 **Communications of the ACM**, Volume 30 Issue 8

Publisher: ACM Press

Full text available: pdf(1.84 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The programming language Ada encourages improved methods for the design of real-time systems.

19 SIGART special issue on machine learning

April 1981 **ACM SIGART Bulletin**, Issue 76

Publisher: ACM Press

Full text available: pdf(3.33 MB)   Additional Information: full citation, abstract

Current research on Machine Learning encompasses a diverse set of approaches, and of opinions regarding where the important issues lie. The significant increase of interest and research activity in Machine Learning over the past few years has led us to organize this special issue of SIGART, whose purpose is to provide a snapshot of current research in this field. This issue contains a set of summaries of ongoing research, solicited from the

community at large, and received from thirty-five resea ...

20 The language of privacy: Learning from video media space analysis and design

Michael Boyle, Saul Greenberg

June 2005 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 12 Issue 2

Publisher: ACM Press

Full text available: pdf(1.12 MB)   Additional Information: full citation, abstract, references, citings, index terms

Video media spaces are an excellent crucible for the study of privacy. Their design affords opportunities for misuse, prompts ethical questions, and engenders grave concerns from both users and nonusers. Despite considerable discussion of the privacy problems uncovered in prior work, questions remain as to how to design a privacy-preserving video media space and how to evaluate its effect on privacy. The problem is more deeply rooted than this, however. Privacy is an enormous concept from which ...

Keywords: Human-computer interaction, autonomy, computer-supported cooperative work (CSCW), confidentiality, environmental psychology, privacy, social interaction, solitude, user interface design, video media spaces

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